

List of Models

Thermoplastic Case

Ratings				21A	16A
Actuator	Terminals	Contact form	Maximum operating force (OF)		
Pin plunger 	Solder terminals (A)	SPDT	3.92N	---	V-16-1A6
		SPST-NC		---	V-16-2A6
		SPST-NO		---	V-16-3A6
		SPDT	1.96N	---	V-16-1A5
		SPST-NC		---	V-16-2A5
		SPST-NO		---	V-16-3A5
		SPDT	0.98N	---	---
		SPST-NC		---	---
		SPST-NO		---	---
	Quick-connect terminals (#187) (C2)	SPDT	3.92N	---	V-16-1C26
		SPST-NC		---	V-16-2C26
		SPST-NO		---	V-16-3C26
		SPDT	1.96N	---	V-16-1C25
		SPST-NC		---	V-16-2C25
		SPST-NO		---	V-16-3C25
		SPDT	0.98N	---	---
		SPST-NC		---	---
		SPST-NO		---	---
	Quick-connect terminals (#250) (C)	SPDT	3.92N	V-21-1C6	V-16-1C6
		SPST-NC		V-21-2C6	V-16-2C6
		SPST-NO		V-21-3C6	V-16-3C6
		SPDT	1.96N	---	V-16-1C5
		SPST-NC		---	V-16-2C5
		SPST-NO		---	V-16-3C5
		SPDT	0.98N	---	---
		SPST-NC		---	---
		SPST-NO		---	---

Refer to "Micro Switch Common Accessories" for Separators (sold separately), Actuators (sold separately) and Terminal Connectors (sold separately).

Actuator	Terminals	Contact form	Maximum operating force (OF)	Ratings	
				21A	16A
Short hinge lever 	Solder terminals (A)	SPDT	3.92N	---	V-161-1A6
		SPST-NC		---	V-161-2A6
		SPST-NO		---	V-161-3A6
		SPDT	1.96N	---	V-161-1A5
		SPST-NC		---	V-161-2A5
		SPST-NO		---	V-161-3A5
		SPDT	0.98N	---	---
		SPST-NC		---	---
		SPST-NO		---	---
	Quick-connect terminals (#187) (C2)	SPDT	3.92N	---	V-161-1C26
		SPST-NC		---	V-161-2C26
		SPST-NO		---	V-161-3C26
		SPDT	1.96N	---	V-161-1C25
		SPST-NC		---	V-161-2C25
		SPST-NO		---	V-161-3C25
		SPDT	0.98N	---	---
		SPST-NC		---	---
		SPST-NO		---	---
	Quick-connect terminals (#250) (C)	SPDT	3.92N	V-211-1C6	V-161-1C6
		SPST-NC		V-211-2C6	V-161-2C6
		SPST-NO		V-211-3C6	V-161-3C6
		SPDT	1.96N	---	V-161-1C5
		SPST-NC		---	V-161-2C5
		SPST-NO		---	V-161-3C5
		SPDT	0.98N	---	---
		SPST-NC		---	---
		SPST-NO		---	---
Hinge lever 	Solder terminals (A)	SPDT	2.45N	---	V-162-1A6
		SPST-NC		---	V-162-2A6
		SPST-NO		---	V-162-3A6
		SPDT	1.23N	---	V-162-1A5
		SPST-NC		---	V-162-2A5
		SPST-NO		---	V-162-3A5
		SPDT	0.59N	---	---
		SPST-NC		---	---
		SPST-NO		---	---
	Quick-connect terminals (#187) (C2)	SPDT	2.45N	---	V-162-1C26
		SPST-NC		---	V-162-2C26
		SPST-NO		---	V-162-3C26
		SPDT	1.23N	---	V-162-1C25
		SPST-NC		---	V-162-2C25
		SPST-NO		---	V-162-3C25
		SPDT	0.59N	---	---
		SPST-NC		---	---
		SPST-NO		---	---
	Quick-connect terminals (#250) (C)	SPDT	2.45N	V-212-1C6	V-162-1C6
		SPST-NC		V-212-2C6	V-162-2C6
		SPST-NO		V-212-3C6	V-162-3C6
		SPDT	1.23N	---	V-162-1C5
		SPST-NC		---	V-162-2C5
		SPST-NO		---	V-162-3C5
		SPDT	0.59N	---	---
		SPST-NC		---	---
		SPST-NO		---	---

Refer to "Micro Switch Common Accessories" for Separators (sold separately), Actuators (sold separately) and Terminal Connectors (sold separately).

Actuator	Terminals	Contact form	Maximum operating force (OF)	Ratings	
				21A	16A
Long hinge lever 	Solder terminals (A)	SPDT	1.27N	---	V-163-1A6
		SPST-NC		---	V-163-2A6
		SPST-NO		---	V-163-3A6
		SPDT	0.69N	---	V-163-1A5
		SPST-NC		---	V-163-2A5
		SPST-NO		---	V-163-3A5
		SPDT	0.34N	---	---
		SPST-NC		---	---
		SPST-NO		---	---
	Quick-connect terminals (#187) (C2)	SPDT	1.27N	---	V-163-1C26
		SPST-NC		---	V-163-2C26
		SPST-NO		---	V-163-3C26
		SPDT	0.69N	---	V-163-1C25
		SPST-NC		---	V-163-2C25
		SPST-NO		---	V-163-3C25
		SPDT	0.34N	---	---
		SPST-NC		---	---
		SPST-NO		---	---
	Quick-connect terminals (#250) (C)	SPDT	1.27N	V-213-1C6	V-163-1C6
		SPST-NC		V-213-2C6	V-163-2C6
		SPST-NO		V-213-3C6	V-163-3C6
		SPDT	0.69N	---	V-163-1C5
		SPST-NC		---	V-163-2C5
		SPST-NO		---	V-163-3C5
		SPDT	0.34N	---	---
		SPST-NC		---	---
		SPST-NO		---	---
Simulated roller lever 	Solder terminals (A)	SPDT	2.45N	---	V-164-1A6
		SPST-NC		---	V-164-2A6
		SPST-NO		---	V-164-3A6
		SPDT	1.23N	---	V-164-1A5
		SPST-NC		---	V-164-2A5
		SPST-NO		---	V-164-3A5
		SPDT	0.59N	---	---
		SPST-NC		---	---
		SPST-NO		---	---
	Quick-connect terminals (#187) (C2)	SPDT	2.45N	---	V-164-1C26
		SPST-NC		---	V-164-2C26
		SPST-NO		---	V-164-3C26
		SPDT	1.23N	---	V-164-1C25
		SPST-NC		---	V-164-2C25
		SPST-NO		---	V-164-3C25
		SPDT	0.59N	---	---
		SPST-NC		---	---
		SPST-NO		---	---
	Quick-connect terminals (#250) (C)	SPDT	2.45N	V-214-1C6	V-164-1C6
		SPST-NC		V-214-2C6	V-164-2C6
		SPST-NO		V-214-3C6	V-164-3C6
		SPDT	1.23N	---	V-164-1C5
		SPST-NC		---	V-164-2C5
		SPST-NO		---	V-164-3C5
		SPDT	0.59N	---	---
		SPST-NC		---	---
		SPST-NO		---	---

Refer to "Micro Switch Common Accessories" for Separators (sold separately), Actuators (sold separately) and Terminal Connectors (sold separately).

				Ratings		
Actuator	Terminals	Contact form	Maximum operating force (OF)		21A	16A
Short hinge roller lever 	Solder terminals (A)	SPDT	4.71N		---	V-165-1A6
		SPST-NC			---	V-165-2A6
		SPST-NO			---	V-165-3A6
		SPDT	2.35N		---	V-165-1A5
		SPST-NC			---	V-165-2A5
		SPST-NO			---	V-165-3A5
		SPDT	1.18N		---	---
		SPST-NC			---	---
		SPST-NO			---	---
	Quick-connect terminals (#187) (C2)	SPDT	4.71N		---	V-165-1C26
		SPST-NC			---	V-165-2C26
		SPST-NO			---	V-165-3C26
		SPDT	2.35N		---	V-165-1C25
		SPST-NC			---	V-165-2C25
		SPST-NO			---	V-165-3C25
		SPDT	1.18N		---	---
		SPST-NC			---	---
		SPST-NO			---	---
	Quick-connect terminals (#250) (C)	SPDT	4.71N		V-215-1C6	V-165-1C6
		SPST-NC			V-215-2C6	V-165-2C6
		SPST-NO			V-215-3C6	V-165-3C6
		SPDT	2.35N		---	V-165-1C5
		SPST-NC			---	V-165-2C5
		SPST-NO			---	V-165-3C5
		SPDT	1.18N		---	---
		SPST-NC			---	---
		SPST-NO			---	---
Hinge roller lever 	Solder terminals (A)	SPDT	2.45N		---	V-166-1A6
		SPST-NC			---	V-166-2A6
		SPST-NO			---	V-166-3A6
		SPDT	1.23N		---	V-166-1A5
		SPST-NC			---	V-166-2A5
		SPST-NO			---	V-166-3A5
		SPDT	0.59N		---	---
		SPST-NC			---	---
		SPST-NO			---	---
	Quick-connect terminals (#187) (C2)	SPDT	2.45N		---	V-166-1C26
		SPST-NC			---	V-166-2C26
		SPST-NO			---	V-166-3C26
		SPDT	1.23N		---	V-166-1C25
		SPST-NC			---	V-166-2C25
		SPST-NO			---	V-166-3C25
		SPDT	0.59N		---	---
		SPST-NC			---	---
		SPST-NO			---	---
	Quick-connect terminals (#250) (C)	SPDT	2.45N		V-216-1C6	V-166-1C6
		SPST-NC			V-216-2C6	V-166-2C6
		SPST-NO			V-216-3C6	V-166-3C6
		SPDT	1.23N		---	V-166-1C5
		SPST-NC			---	V-166-2C5
		SPST-NO			---	V-166-3C5
		SPDT	0.59N		---	---
		SPST-NC			---	---
		SPST-NO			---	---

Refer to "Micro Switch Common Accessories" for Separators (sold separately), Actuators (sold separately) and Terminal Connectors (sold separately).

Thermosetting case

Actuator	Terminals	Contact form	Maximum operating force (OF)	Ratings		Heat-resistive	
				15A	10A	15A	10A
Pin plunger 	Solder terminals (A)	SPDT	3.92N	V-15-1A6	---	V-15-1A6-T	---
		SPST-NC		V-15-2A6	---	---	---
		SPST-NO		V-15-3A6	---	---	---
		SPDT	1.96N	V-15-1A5	V-10-1A5	V-15-1A5-T	V-10-1A5-T
		SPST-NC		V-15-2A5	V-10-2A5	---	---
		SPST-NO		V-15-3A5	V-10-3A5	---	---
		SPDT	0.98N	---	V-10-1A4	---	V-10-1A4-T
		SPST-NC		---	V-10-2A4	---	V-10-2A4-T
		SPST-NO		---	V-10-3A4	---	V-10-3A4-T
	Quick-connect terminals (#187) (C2)	SPDT	3.92N	V-15-1C26	---	V-15-1C26-T	---
		SPST-NC		V-15-2C26	---	---	---
		SPST-NO		V-15-3C26	---	---	---
		SPDT	1.96N	V-15-1C25	V-10-1C25	V-15-1C25-T	V-10-1C25-T
		SPST-NC		V-15-2C25	V-10-2C25	---	---
		SPST-NO		V-15-3C25	V-10-3C25	---	---
		SPDT	0.98N	---	V-10-1C24	---	V-10-1C24-T
		SPST-NC		---	V-10-2C24	---	---
		SPST-NO		---	V-10-3C24	---	---
	Quick-connect terminals (#250) (C)	SPDT	3.92N	V-15-1C6	---	V-15-1C6-T	---
		SPST-NC		V-15-2C6	---	---	---
		SPST-NO		V-15-3C6	---	---	---
		SPDT	1.96N	V-15-1C5	V-10-1C5	V-15-1C5-T	V-10-1C5-T
		SPST-NC		V-15-2C5	V-10-2C5	---	---
		SPST-NO		V-15-3C5	V-10-3C5	---	---
		SPDT	0.98N	---	V-10-1C4	---	V-10-1C4-T
		SPST-NC		---	V-10-2C4	---	---
		SPST-NO		---	V-10-3C4	---	---
Short hinge lever 	Solder terminals (A)	SPDT	3.92N	V-151-1A6	---	V-151-1A6-T	---
		SPST-NC		V-151-2A6	---	---	---
		SPST-NO		V-151-3A6	---	---	---
		SPDT	1.96N	V-151-1A5	V-101-1A5	V-151-1A5-T	V-101-1A5-T
		SPST-NC		V-151-2A5	V-101-2A5	---	---
		SPST-NO		V-151-3A5	V-101-3A5	---	---
		SPDT	0.98N	---	V-101-1A4	---	V-101-1A4-T
		SPST-NC		---	V-101-2A4	---	---
		SPST-NO		---	V-101-3A4	---	---
	Quick-connect terminals (#187) (C2)	SPDT	3.92N	V-151-1C26	---	V-151-1C26-T	---
		SPST-NC		V-151-2C26	---	---	---
		SPST-NO		V-151-3C26	---	---	---
		SPDT	1.96N	V-151-1C25	V-101-1C25	V-151-1C25-T	V-101-1C25-T
		SPST-NC		V-151-2C25	V-101-2C25	---	---
		SPST-NO		V-151-3C25	V-101-3C25	---	---
		SPDT	0.98N	---	V-101-1C24	---	V-101-1C24-T
		SPST-NC		---	V-101-2C24	---	---
		SPST-NO		---	V-101-3C24	---	---
	Quick-connect terminals (#250) (C)	SPDT	3.92N	V-151-1C6	---	V-151-1C6-T	---
		SPST-NC		V-151-2C6	---	---	---
		SPST-NO		V-151-3C6	---	---	---
		SPDT	1.96N	V-151-1C5	V-101-1C5	V-151-1C5-T	V-101-1C5-T
		SPST-NC		V-151-2C5	V-101-2C5	---	---
		SPST-NO		V-151-3C5	V-101-3C5	---	---
		SPDT	0.98N	---	V-101-1C4	---	V-101-1C4-T
		SPST-NC		---	V-101-2C4	---	---
		SPST-NO		---	V-101-3C4	---	---

Refer to "Micro Switch Common Accessories" for Separators (sold separately), Actuators (sold separately) and Terminal Connectors (sold separately).

Actuator	Terminals	Contact form	Maximum operating force (OF)	Ratings		Heat-resistive	
				15A	10A	15A	10A
Hinge lever 	Solder terminals (A)	SPDT	2.45N	V-152-1A6	---	V-152-1A6-T	---
		SPST-NC		V-152-2A6	---	---	---
		SPST-NO		V-152-3A6	---	---	---
		SPDT	1.23N	V-152-1A5	V-102-1A5	V-152-1A5-T	V-102-1A5-T
		SPST-NC		V-152-2A5	V-102-2A5	---	---
		SPST-NO		V-152-3A5	V-102-3A5	---	---
		SPDT	0.59N	---	V-102-1A4	---	V-102-1A4-T
		SPST-NC		---	V-102-2A4	---	---
		SPST-NO		---	V-102-3A4	---	---
	Quick-connect terminals (#187) (C2)	SPDT	2.45N	V-152-1C26	---	V-152-1C26-T	---
		SPST-NC		V-152-2C26	---	---	---
		SPST-NO		V-152-3C26	---	---	---
		SPDT	1.23N	V-152-1C25	V-102-1C25	V-152-1C25-T	V-102-1C25-T
		SPST-NC		V-152-2C25	V-102-2C25	---	---
		SPST-NO		V-152-3C25	V-102-3C25	---	---
		SPDT	0.59N	---	V-102-1C24	---	V-102-1C24-T
		SPST-NC		---	V-102-2C24	---	---
		SPST-NO		---	V-102-3C24	---	---
	Quick-connect terminals (#250) (C)	SPDT	2.45N	V-152-1C6	---	V-152-1C6-T	---
		SPST-NC		V-152-2C6	---	---	---
		SPST-NO		V-152-3C6	---	---	---
		SPDT	1.23N	V-152-1C5	V-102-1C5	V-152-1C5-T	V-102-1C5-T
		SPST-NC		V-152-2C5	V-102-2C5	---	---
		SPST-NO		V-152-3C5	V-102-3C5	---	---
		SPDT	0.59N	---	V-102-1C4	---	V-102-1C4-T
		SPST-NC		---	V-102-2C4	---	---
		SPST-NO		---	V-102-3C4	---	---
Long hinge lever 	Solder terminals (A)	SPDT	1.27N	V-153-1A6	---	V-153-1A6-T	---
		SPST-NC		V-153-2A6	---	---	---
		SPST-NO		V-153-3A6	---	---	---
		SPDT	0.69N	V-153-1A5	V-103-1A5	V-153-1A5-T	V-103-1A5-T
		SPST-NC		V-153-2A5	V-103-2A5	---	---
		SPST-NO		V-153-3A5	V-103-3A5	---	---
		SPDT	0.34N	---	V-103-1A4	---	V-103-1A4-T
		SPST-NC		---	V-103-2A4	---	---
		SPST-NO		---	V-103-3A4	---	---
	Quick-connect terminals (#187) (C2)	SPDT	1.27N	V-153-1C26	---	V-153-1C26-T	---
		SPST-NC		V-153-2C26	---	---	---
		SPST-NO		V-153-3C26	---	---	---
		SPDT	0.69N	V-153-1C25	V-103-1C25	V-153-1C25-T	V-103-1C25-T
		SPST-NC		V-153-2C25	V-103-2C25	---	---
		SPST-NO		V-153-3C25	V-103-3C25	---	---
		SPDT	0.34N	---	V-103-1C24	---	V-103-1C24-T
		SPST-NC		---	V-103-2C24	---	---
		SPST-NO		---	V-103-3C24	---	---
	Quick-connect terminals (#250) (C)	SPDT	1.27N	V-153-1C6	---	V-153-1C6-T	---
		SPST-NC		V-153-2C6	---	---	---
		SPST-NO		V-153-3C6	---	---	---
		SPDT	0.69N	V-153-1C5	V-103-1C5	V-153-1C5-T	V-103-1C5-T
		SPST-NC		V-153-2C5	V-103-2C5	---	---
		SPST-NO		V-153-3C5	V-103-3C5	---	---
		SPDT	0.34N	---	V-103-1C4	---	V-103-1C4-T
		SPST-NC		---	V-103-2C4	---	---
		SPST-NO		---	V-103-3C4	---	---

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Actuator	Terminals	Contact form	Maximum operating force (OF)	Ratings		Heat-resistive	
				15A	10A	15A	10A
Simulated roller lever 	Solder terminals (A)	SPDT	2.45N	V-154-1A6	---	V-154-1A6-T	---
		SPST-NC		V-154-2A6	---	---	---
		SPST-NO		V-154-3A6	---	---	---
		SPDT	1.23N	V-154-1A5	V-104-1A5	V-154-1A5-T	V-104-1A5-T
		SPST-NC		V-154-2A5	V-104-2A5	---	---
		SPST-NO		V-154-3A5	V-104-3A5	---	---
		SPDT	0.59N	---	V-104-1A4	---	V-104-1A4-T
		SPST-NC		---	V-104-2A4	---	---
		SPST-NO		---	V-104-3A4	---	---
	Quick-connect terminals (#187) (C2)	SPDT	2.45N	V-154-1C26	---	V-154-1C26-T	---
		SPST-NC		V-154-2C26	---	---	---
		SPST-NO		V-154-3C26	---	---	---
		SPDT	1.23N	V-154-1C25	V-104-1C25	V-154-1C25-T	V-104-1C25-T
		SPST-NC		V-154-2C25	V-104-2C25	---	---
		SPST-NO		V-154-3C25	V-104-3C25	---	---
		SPDT	0.59N	---	V-104-1C24	---	V-104-1C24-T
		SPST-NC		---	V-104-2C24	---	---
		SPST-NO		---	V-104-3C24	---	---
	Quick-connect terminals (#250) (C)	SPDT	2.45N	V-154-1C6	---	V-154-1C6-T	---
		SPST-NC		V-154-2C6	---	---	---
		SPST-NO		V-154-3C6	---	---	---
		SPDT	1.23N	V-154-1C5	V-104-1C5	V-154-1C5-T	V-104-1C5-T
		SPST-NC		V-154-2C5	V-104-2C5	---	---
		SPST-NO		V-154-3C5	V-104-3C5	---	---
		SPDT	0.59N	---	V-104-1C4	---	V-104-1C4-T
		SPST-NC		---	V-104-2C4	---	---
		SPST-NO		---	V-104-3C4	---	---
Short hinge roller lever 	Solder terminals (A)	SPDT	4.71N	V-155-1A6	---	V-155-1A6-T	---
		SPST-NC		V-155-2A6	---	---	---
		SPST-NO		V-155-3A6	---	---	---
		SPDT	2.35N	V-155-1A5	V-105-1A5	V-155-1A5-T	V-105-1A5-T
		SPST-NC		V-155-2A5	V-105-2A5	---	---
		SPST-NO		V-155-3A5	V-105-3A5	---	---
		SPDT	1.18N	---	V-105-1A4	---	V-105-1A4-T
		SPST-NC		---	V-105-2A4	---	---
		SPST-NO		---	V-105-3A4	---	---
	Quick-connect terminals (#187) (C2)	SPDT	4.71N	V-155-1C26	---	V-155-1C26-T	---
		SPST-NC		V-155-2C26	---	---	---
		SPST-NO		V-155-3C26	---	---	---
		SPDT	2.35N	V-155-1C25	V-105-1C25	V-155-1C25-T	V-105-1C25-T
		SPST-NC		V-155-2C25	V-105-2C25	---	---
		SPST-NO		V-155-3C25	V-105-3C25	---	---
		SPDT	1.18N	---	V-105-1C24	---	V-105-1C24-T
		SPST-NC		---	V-105-2C24	---	---
		SPST-NO		---	V-105-3C24	---	---
	Quick-connect terminals (#250) (C)	SPDT	4.71N	V-155-1C6	---	V-155-1C6-T	---
		SPST-NC		V-155-2C6	---	---	---
		SPST-NO		V-155-3C6	---	---	---
		SPDT	2.35N	V-155-1C5	V-105-1C5	V-155-1C5-T	V-105-1C5-T
		SPST-NC		V-155-2C5	V-105-2C5	---	---
		SPST-NO		V-155-3C5	V-105-3C5	---	---
		SPDT	1.18N	---	V-105-1C4	---	V-105-1C4-T
		SPST-NC		---	V-105-2C4	---	---
		SPST-NO		---	V-105-3C4	---	---

Refer to "Micro Switch Common Accessories" for Separators (sold separately), Actuators (sold separately) and Terminal Connectors (sold separately).

Actuator	Terminals	Contact form	Maximum operating force (OF)	Ratings		Heat-resistive	
				15A	10A	15A	10A
Hinge roller lever 	Solder terminals (A)	SPDT	2.45N	V-156-1A6	---	V-156-1A6-T	---
		SPST-NC		V-156-2A6	---	---	---
		SPST-NO		V-156-3A6	---	---	---
		SPDT	1.23N	V-156-1A5	V-106-1A5	V-156-1A5-T	V-106-1A5-T
		SPST-NC		V-156-2A5	V-106-2A5	---	---
		SPST-NO		V-156-3A5	V-106-3A5	---	---
		SPDT	0.59N	---	V-106-1A4	---	V-106-1A4-T
		SPST-NC		---	V-106-2A4	---	---
		SPST-NO		---	V-106-3A4	---	---
	Quick-connect terminals (#187) (C2)	SPDT	2.45N	V-156-1C26	---	V-156-1C26-T	---
		SPST-NC		V-156-2C26	---	---	---
		SPST-NO		V-156-3C26	---	---	---
		SPDT	1.23N	V-156-1C25	V-106-1C25	V-156-1C25-T	V-106-1C25-T
		SPST-NC		V-156-2C25	V-106-2C25	---	---
		SPST-NO		V-156-3C25	V-106-3C25	---	---
		SPDT	0.59N	---	V-106-1C24	---	V-106-1C24-T
		SPST-NC		---	V-106-2C24	---	---
		SPST-NO		---	V-106-3C24	---	---
	Quick-connect terminals (#250) (C)	SPDT	2.45N	V-156-1C6	---	V-156-1C6-T	---
		SPST-NC		V-156-2C6	---	---	---
		SPST-NO		V-156-3C6	---	---	---
		SPDT	1.23N	V-156-1C5	V-106-1C5	V-156-1C5-T	V-106-1C5-T
		SPST-NC		V-156-2C5	V-106-2C5	---	---
		SPST-NO		V-156-3C5	V-106-3C5	---	---
		SPDT	0.59N	---	V-106-1C4	---	V-106-1C4-T
		SPST-NC		---	V-106-2C4	---	---
		SPST-NO		---	V-106-3C4	---	---

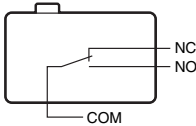
V

For DC load (V-21(IN) models)

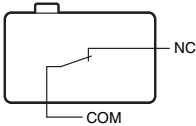
Actuator	Terminals	Contact form	Maximum operating force (OF)	Ratings
Pin plunger 	Quick-connect terminals (#250) (C)	SPDT	3.92N	30VDC 12A
				V-21-1C6(IN)

Contact form

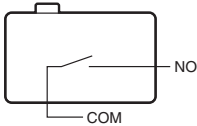
SPDT



SPST-NC



SPST-NO



Refer to "Micro Switch Common Accessories" for Separators (sold separately), Actuators (sold separately) and Terminal Connectors (sold separately).

Contact Specifications

Item	Model	V-21	V-16	V-15	V-10	V-21(IN)
Contact	Specification	Rivet				
	Material	Silver alloy			Silver	Indium alloy
	Gap (standard value)	1 mm				
Inrush current	NC	50 A max.	40 A max.	30 A max.	24 A max.	50 A max.
	NO					
Minimum applicable load (reference value)		DC5V 160mA				

Ratings

Model	Rated voltage	Item	Resistive load
V-21	AC250V		21 A
	DC125V		0.6 A
	DC250V		0.3 A
V-16	AC250V		16 A
	DC125V		0.6 A
	DC250V		0.3 A
V-15	AC250V		15 A
	DC125V		0.6 A
	DC250V		0.3 A
V-10	AC250V		10 A
	DC125V		0.6 A
	DC250V		0.3 A
V-21(IN)	DC30V		12 A

Note. The above rating values apply under the following test conditions.

- (1) Ambient temperature: 20±2°C
- (2) Ambient humidity: 65±5% RH
- (3) Operating frequency: 30 operations/min

Characteristics

Item	Model	V-10	V-15	V-16	V-21	V-21(IN)
Permissible operating speed		0.1mm to 1 m/s max. (pin plunger models)				
Permissible operating frequency	Mechanical	600 operations/min max. (pin plunger models)				
	Electrical	60 operations/min				
Insulation resistance		100MΩ min. (at 500 VDC with insulation tester)				
Contact resistance (initial value)		15mΩ max.				
Dielectric strength *1	Between terminals of the same polarity	AC1,000V 50/60Hz 1min				
	Between current-carrying metal parts and ground	AC1,500V 50/60Hz 1min	AC1,500V 50/60Hz 1min	AC2,000V 50/60Hz 1min		
	Between each terminals and non-current-carrying metal parts	AC1,500V 50/60Hz 1min	AC1,500V 50/60Hz 1min	AC2,000V 50/60Hz 1min		
Vibration resistance *2	Malfunction	10 to 55 Hz, 1.5-mm double amplitude				
Shock resistance *2	Durability	1,000 m/s ² {approx. 100 G} max.				
	Malfunction	200 m/s ² {approx. 20G} max.	300 m/s ² {approx. 30 G} max.			
Durability *3	Mechanical	50,000,000 operations min. (60 operations/min)				
	Electrical	300,000 operations min. (30 operations/min) Heat resistive: 50,000 operations min (30 operations/min)	100,000 operations min. (30 operations/min) Heat resistive: 20,000 operations min (30 operations/min)	100,000 operations min. (30 operations/min)		
Degree of protection		IEC IP40				
Degree of protection against electric shock		Class I				
Proof tracking index (PTI)		175				
Ambient operating temperature		-25 to 105°C (Heat resistive: -25 to 150°C)		-25 to 105°C	-25 to 80°C	
		-25 to 105°C (V-21 series: -25 to 80°C) (Heat resistive: -25 to 150°C) at ambient humidity of 60% max. (with no icing or condensation)				
Ambient operating humidity		85% max. (for 5 to 35°C)				
Weight		Approx. 6.2g (pin plunger models)				

Note. The data given above are initial values.

*1. The dielectric strength shown in the table indicates a value for models with a Separator.

*2. For the pin plunger models, the above values apply for use at the free position and total travel position. For the lever models, they apply at the total travel position. Close or open circuit of the contact is shorter than 1 ms.

*3. For testing conditions, consult your OMRON sales representative.

Approved Standards

UL (UL1054)/CSA (CSA C22.2 No.55)

Rated voltage	Model	V-21	V-16	V-15	V-10
125 VAC		21A 1/2HP	16A 1/2HP	15A 1/2HP	10A 1/2HP
250 VAC					
125 VDC		0.6A			
250 VDC		0.3A			

VDE (EN61058-1)

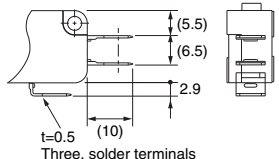
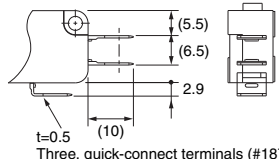
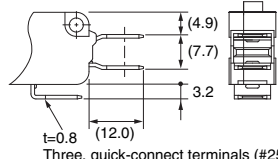
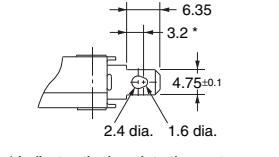
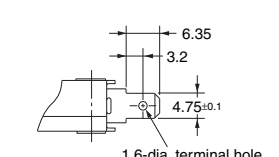
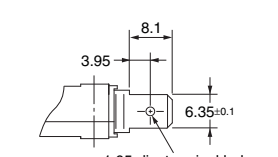
Consult your OMRON sales representative for specific models with VDE approvals.

Rated voltage	Model	V-21	V-16
AC250V		20(4)A	16(4)A

Testing conditions: 5E4 (50,000 operations), for models of V-21: T80 (0 to 80°C), for models of V-16: T105 (0 to 105°C)

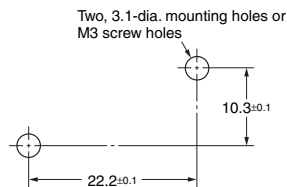
Note. V-21(IN) models are not Safety standard approved.

Terminals and Apperance (Unit: mm)

Solder terminals (A)	Quick-connect terminals (#187) (C2)	Quick-connect terminals (#250) (C)
 Three, solder terminals	 Three, quick-connect terminals (#187)	 Three, quick-connect terminals (#250)
 * Indicates the length to the center of the 1.6-dia. holes	 1.6-dia. terminal hole	 1.65-dia. terminal hole

Note. The above is for the SPDT contact specifications. Two terminals will be available for SPST-NO or SPST-NC contact specifications. For terminal positions, refer to Contact form on page 9.

Mounting Holes (Unit: mm)



Dimensions and Operating Characteristics

Thermoplastic Case V-21-16/-21(IN) Models

The following illustrations and drawings are for quick-connect terminals #250 (terminals C). V models with a switching current of 16 A and 11 A incorporate solder terminals (A) and quick-connect terminals #187 (C2). These models are different from #250 models in terminal size only. Dimensions of solder terminals (A) and quick-connect terminal #187 (C2) are omitted. Please refer to the "Terminals and Shapes" on previous page.

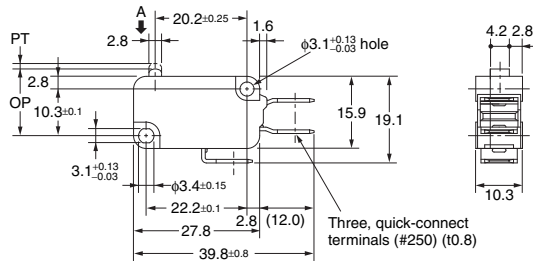
The □ is replaced with the code for the terminals. See the "List of Models" for available combinations of shapes.

●Pin plunger

V-21-1□6

V-16-1□6

V-16-1□5



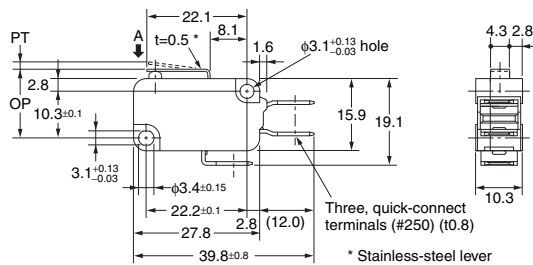
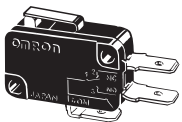
Operating characteristics	Model	V-21-1□6 V-16-1□6	V-16-1□5
OF max.		3.92N	1.96N
RF min.		0.78N	0.49N
PT max.		1.2mm	
OT min.		1.0mm	
MD max.		0.4mm	
OP		14.7±0.4mm	

●Short hinge lever

V-211-1□6

V-161-1□6

V-161-1□5



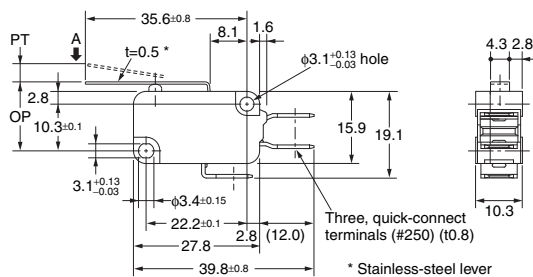
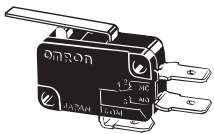
Operating characteristics	Model	V-211-1□6 V-161-1□6	V-161-1□5
OF max.		3.92N	1.96N
RF min.		0.49N	0.49N
PT max.		1.6mm	
OT min.		0.8mm	
MD max.		0.6mm	
OP		15.2±0.5mm	

●Hinge lever

V-212-1□6

V-162-1□6

V-162-1□5



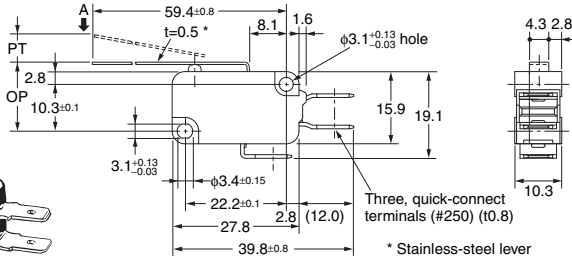
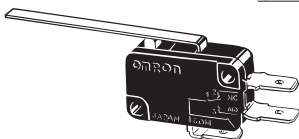
Operating characteristics	Model	V-212-1□6 V-162-1□6	V-162-1□5
OF max.		2.45N	1.23N
RF min.		0.25N	0.14N
PT max.		4.0mm	
OT min.		1.6mm	
MD max.		1.5mm	
OP		15.2±1.2mm	

●Long Hinge Lever Models

V-213-1□6

V-163-1□6

V-163-1□5



Operating characteristics	Model	V-213-1□6 V-163-1□6	V-163-1□5
OF max.		1.27N	0.69N
RF min.		0.12N	0.06N
PT max.		9.0mm	
OT min.		2.0mm	
MD max.		2.8mm	
OP		15.2 ^{+2.6} _{-3.2} mm	

Note 1. Unless otherwise specified, a tolerance of ±0.4 mm applies to all dimensions.

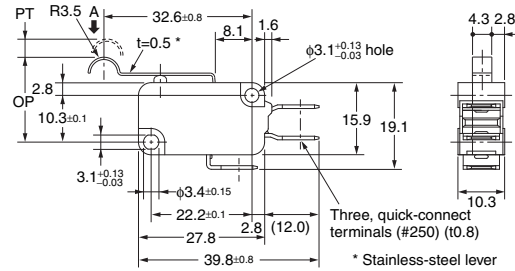
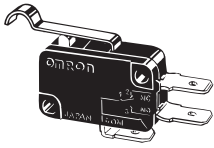
Note 2. The operating characteristics are for operation in the A direction (↓).

● Simulated roller lever

V-214-1□6

V-164-1□6

V-164-1□5



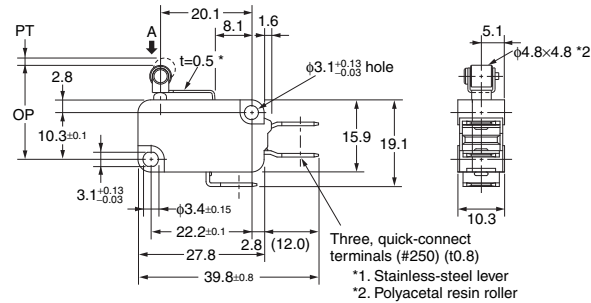
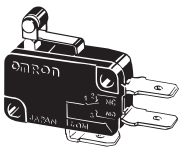
Operating characteristics	Model	V-214-1□6 V-164-1□6	V-164-1□5
OF max.		2.45N	1.23N
RF min.		0.25N	0.14N
PT max.		4.0mm	
OT min.		1.6mm	
MD max.		1.5mm	
OP		18.7±1.2mm	

● Short hinge roller lever

V-215-1□6

V-165-1□6

V-165-1□5



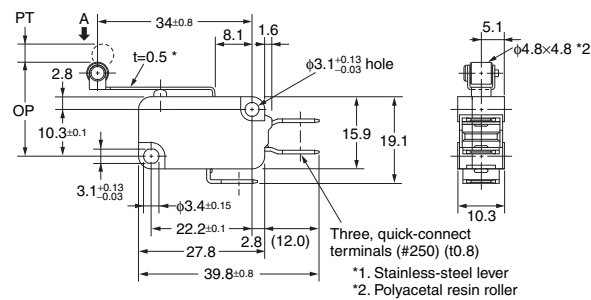
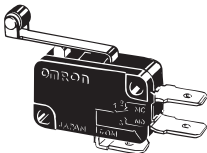
Operating characteristics	Model	V-215-1□6 V-165-1□6	V-165-1□5
OF max.		4.71N	2.35N
RF min.		0.49N	0.49N
PT max.		1.6mm	
OT min.		0.8mm	
MD max.		0.6mm	
OP		20.7±0.6mm	

● Hinge roller lever

V-216-1□6

V-166-1□6

V-166-1□5



Operating characteristics	Model	V-216-1□6 V-166-1□6	V-166-1□5
OF max.		2.45N	1.23N
RF min.		0.25N	0.14N
PT max.		4.0mm	
OT min.		1.6mm	
MD max.		1.5mm	
OP		20.7±1.2mm	

Note 1. Unless otherwise specified, a tolerance of ± 0.4 mm applies to all dimensions.

Note 2. The operating characteristics are for operation in the A direction (↓).

Thermosetting Case (V-15/V-10 Models)) Applicable to both Standard (105°C) and Heat-resistant (150°C) models

The following dimensions and Operating Characteristics are for both "Not specified: Standard (105°C)" and "-T: Heat-resistive (150°C)" models.

The following illustrations and drawings are for solder terminals (Terminal A). V models with a switching current of 15A and 10A have quick-connect terminals #187 (C2). These models are different from solder terminal models in terminal size only. Illustrations for quick-connect terminals #187 (C2) are omitted. Please refer to **"Terminals and Shapes"** on page 8.

The ☐ is replaced with the code for the terminals. See the "List of Models" for available combinations of shapes.

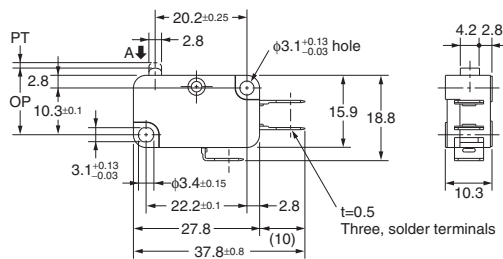
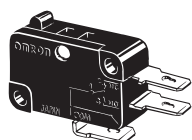
●Pin plunger

V-15-1□6

V-15-1□5

V-10-1□5

V-10-1□4



Operating characteristics	Model	V-15-1□6	V-15-1□5 V-10-1□5	V-10-1□4
OF max.		3.92N	1.96N	0.98N
RF min.		078N	0.49N	0.20N
PT max.			1.2mm	
OT min.			1.0mm	
MD max.			0.4mm	
OP			14.7±0.4mm	

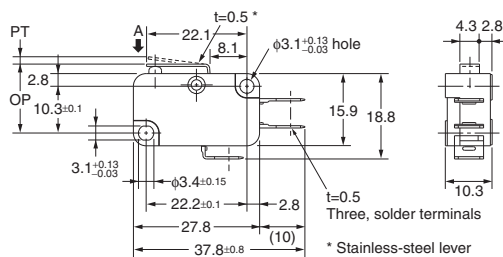
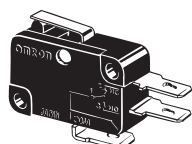
●Short hinge lever

V-151-1□6

V-151-105

V-101-1□5

V-101-1□4



Operating characteristics	Model	V-151-1□6	V-151-1□5 V-101-1□5	V-101-1□4
OF max. RF min.		3.92N 0.49N	1.96N 0.49N	0.98N 0.15N
PT max. OT min. MD max.			1.6mm 0.8mm 0.6mm	
OP			15.2±0.5mm	

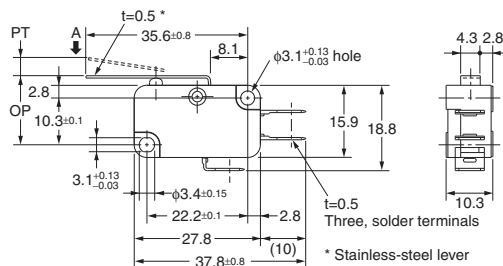
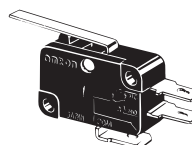
- Hinge lever

V-152-1□6

V-152-1□5

V-102-1□5

V-102-1□4



Operating characteristics	Model	V-152-1□6	V-152-1□5 V-102-1□5	V-102-1□6
OF max. RF min.		2.45N 0.25N	1.23N 0.14N	0.59N 0.06N
PT max. OT min. MD max.			4.0mm 1.6mm 1.5mm	
OP			15.2±1.2mm	

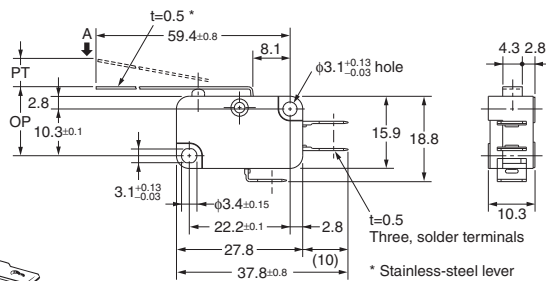
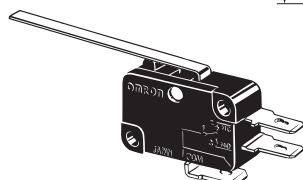
●Long Hinge Lever Models

V-153-1□6

V-153-1□5

V-103-1□5

V-103-1□4



Operating characteristics	Model	V-153-1□6	V-153-1□5 V-103-1□5	V-103-1□
OF max.		1.27N	0.69N	0.34N
RF min.		0.12N	0.06N	-
PT max.		9.0mm		9.0mm
OT min.		2.0mm		3.2mm
MD max.		2.8mm		2.8mm
OP		15.2 ^{+2.6} _{-3.2} mm		15.2±2.6 mm

Note 1. Unless otherwise specified, a tolerance of ± 0.4 mm applies to all dimensions.

Note 2. The operating characteristics are for operation in the A direction (↓).

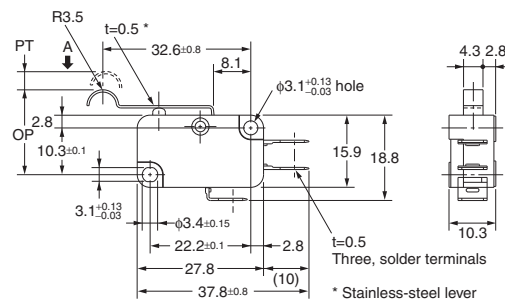
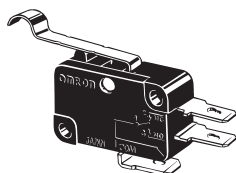
●Simulated roller lever

V-154-1□6

V-154-1□5

V-104-1□5

V-104-1□4



Operating characteristics	Model	V-154-1□6	V-154-1□5 V-104-1□5	V-104-1□4
OF max.		2.45N	1.23N	0.59N
RF min.		0.25N	0.14N	0.06N
PT max.		4.0mm		
OT min.		1.6mm		
MD max.		1.5mm		
OP		18.7 ± 1.2 mm		

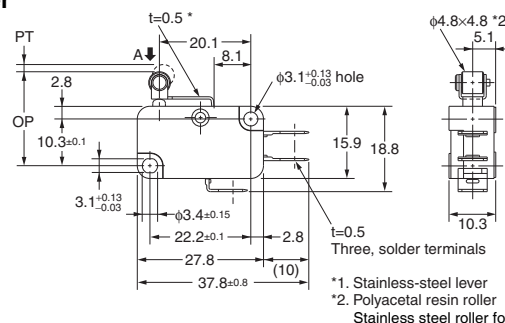
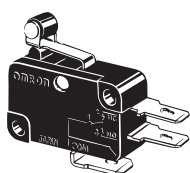
●Short hinge roller lever

V-155-1□6

V-155-1□5

V-105-1□5

V-105-1□4



Operating characteristics	Model	V-155-1□6	V-155-1□5 V-105-1□5	V-105-1□4
OF max.		4.71N	2.35N	1.18N
RF min.		0.49N	0.49N	0.15N
PT max.		1.6mm		
OT min.		0.8mm		
MD max.		0.6mm		
OP		20.7 ± 0.6 mm		

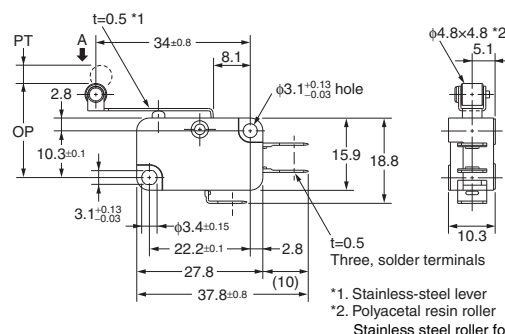
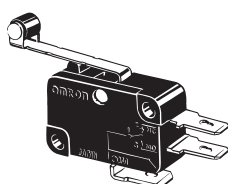
●Hinge roller lever

V-156-1□6

V-156-1□5

V-106-1□5

V-106-1□4



Operating characteristics	Model	V-156-1□6	V-156-1□5 V-106-1□5	V-106-1□4
OF max.		2.45N	1.23N	0.59N
RF min.		0.25N	0.14N	0.06N
PT max.		4.0mm		
OT min.		1.6mm		
MD max.		1.5mm		
OP		20.7 ± 1.2 mm		

Note 1. Unless otherwise specified, a tolerance of ± 0.4 mm applies to all dimensions.

Note 2. The operating characteristics are for operation in the A direction (↓).

Precautions

★Please read "Common Precautions" for correct use.

Precautions for Safe Use

●Soldering

- Connecting to Solder Terminals
Complete the soldering at the iron tip temperature of 250 to 350°C (60W) within 5 seconds, and do not apply any external force for 1 minute after soldering.
Be sure to apply only the minimum required amount of flux. It may result in contact failure once the flux penetrates into the internal part of the Switch.
- Connecting to Quick-connect Terminals #187
Insert the receptacle of quick-connect terminal #187 straight toward the terminal.
Applying excessive external force horizontally or vertically may cause deformation of terminals and may damage the housings.
- Connecting to Quick-connect Terminals #250
Insert the receptacle of quick-connect terminal #250 straight toward the terminal.
Applying excessive external force horizontally or vertically may cause deformation of terminals and may damage the housings.

Precautions for Correct Use

●Mounting

Use M3 mounting screw with plane washers or spring washers to securely mount the Switch. Tighten the screws to a torque of 0.39 to 0.59N·m {4 to 6 kgf·cm}.

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